

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P275477

Luminaire Tested: **14CZ2-35-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-35-UNV-L82765-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3405.0 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

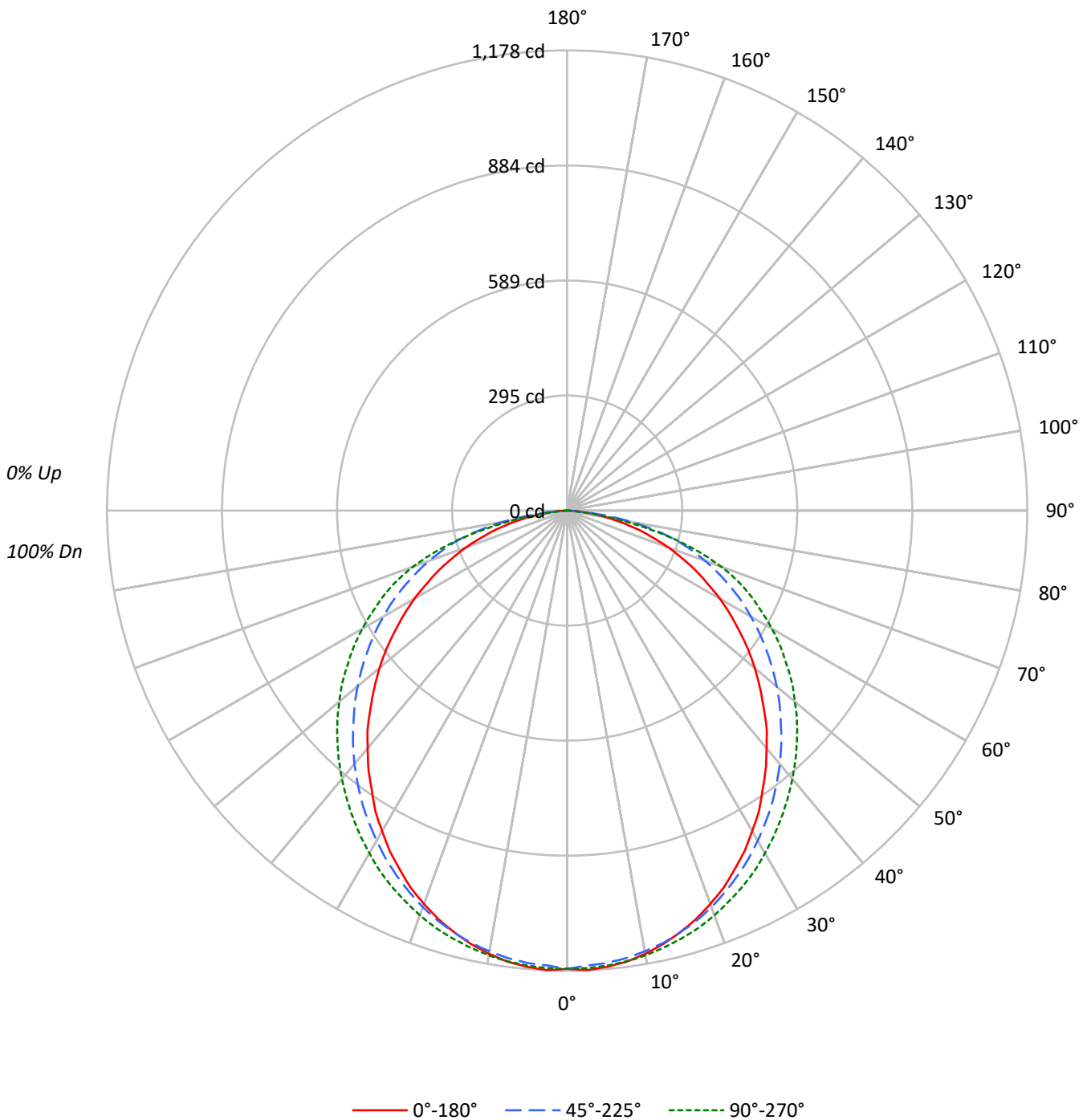
Input Watts (W): 27.528  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3157	3157	3157
5°	3167	3140	3158
10°	3147	3131	3160
15°	3114	3116	3158
20°	3068	3094	3157
25°	3010	3064	3154
30°	2944	3031	3147
35°	2866	3006	3145
40°	2790	2976	3150
45°	2705	2944	3167
50°	2625	2930	3188
55°	2525	2921	3217
60°	2435	2926	3261
65°	2311	2935	3312
70°	2168	2957	3309
75°	1966	2984	2992
80°	1612	2577	2129
85°	1195	1220	491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.0	3.3
10°-20°	317.1	9.3
20°-30°	477.7	14.0
30°-40°	573.2	16.8
40°-50°	597.4	17.5
50°-60°	553.1	16.2
60°-70°	446.9	13.1
70°-80°	272.5	8.0
80°-90°	56.2	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	905.7	26.6
0°-40°	1478.9	43.4
0°-60°	2629.4	77.2
0°-90°	3405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3405.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1172	1169	1162	1171	1169	111
15°	1118	1118	1118	1134	1134	315
25°	1014	1020	1032	1058	1062	467
35°	872	886	915	948	957	547
45°	711	732	774	817	832	549
55°	538	566	623	671	686	482
65°	363	399	461	507	520	359
75°	189	231	287	292	288	199
85°	39	58	40	22	16	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1173.0	1173.0	1173.0	1173.0	1173.0
2.5°	1177.6	1173.8	1165.4	1173.8	1172.3
5°	1172.3	1169.2	1162.4	1170.8	1169.2
7.5°	1164.7	1161.6	1155.6	1165.4	1163.9
10°	1151.8	1150.3	1145.7	1157.1	1156.3
12.5°	1136.6	1135.8	1133.6	1146.5	1145.7
15°	1117.6	1118.4	1118.4	1133.6	1133.6
17.5°	1096.3	1097.9	1100.9	1117.6	1119.9
20°	1071.3	1074.3	1080.4	1099.4	1102.4
22.5°	1045.5	1047.8	1056.9	1079.6	1082.7
25°	1013.6	1019.7	1031.8	1057.6	1062.2
27.5°	983.2	988.5	1005.2	1031.8	1039.4
30°	947.5	955.9	975.6	1004.5	1012.8
32.5°	913.4	922.5	945.3	978.7	986.3
35°	872.4	886.0	914.9	948.3	957.4
37.5°	835.2	848.1	880.7	917.2	927.8
40°	794.2	810.1	847.3	886.0	896.7
42.5°	756.2	771.4	811.6	851.1	865.5
45°	710.7	731.9	773.7	816.9	832.1
47.5°	668.9	690.2	738.0	784.3	798.0
50°	627.1	649.9	700.0	747.9	761.5
52.5°	583.9	608.2	662.1	709.9	725.8
55°	538.3	566.4	622.6	671.2	685.6
57.5°	495.0	523.9	583.9	633.2	647.6
60°	452.5	482.1	543.6	590.7	605.9
62.5°	405.4	440.4	504.1	550.5	561.8
65°	362.9	398.6	460.9	507.2	520.1
67.5°	318.1	356.8	419.1	461.6	473.8
70°	275.6	315.8	375.8	415.3	420.6
72.5°	230.1	271.1	331.8	356.8	356.8
75°	189.1	230.8	287.0	291.6	287.8
77.5°	144.3	190.6	227.0	217.9	208.8
80°	104.0	149.6	166.3	149.6	137.4
82.5°	69.9	108.6	100.2	79.7	70.6
85°	38.7	57.7	39.5	22.0	15.9
87.5°	14.4	12.9	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)